

24167
S/032/61/027/005/017/017
B110/B206

New operating instructions for radioactive... dosimetric controls for prevention of excessive irradiation must be made by specially trained persons. An individual card index must show the doses of the irradiated persons. The admissible maximum was determined more strictly. According to recommendations by the International Committee for Radiation Protection, the following differentiations are made: occupational irradiation of operating personnel, irradiation of personnel working in intermediate rooms, irradiation of the population of all age groups living in the vicinity of the danger zone. The old instructions permitted 0.05 r per day = 300 mrem per 6 day week, the new one permits only 100 mrem per week = 5 rem annually for occupational irradiation. The total dose of occupational irradiation should not exceed 60 rem up to 30 years of age. Correspondingly lower values were laid down for the maximum concentration of radioactive isotopes in the water of open wells and springs, the air in work rooms, danger zones, and settlements. It was specified for 130 different isotopes. The new instructions contain, for the first time, deactivation methods for laboratory equipment. This proves that the USSR strictly maintains the conventions and recommendations by the 44th Meeting of the International Working Conference in Geneva. The following participated in elaborating

X

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New operating instructions for radioactive...
the instructions: A. S. Arkhipov, N. I. Volkova, S. M. Gorodinskiy,
V. P. Granil'shchikov, N. G. Gusev, S. A. Klyugin, L. N. Lazareva,
A. A. Letavet, N. I. Leshchinskii, P. I. Moyseytsev, A. N. Morey,
G. M. Parkhomenko, V. I. Sinitzin, N. Yu. Tarasenko, A. Shtan' and other
collaborators of the GK SM SSSR po IAE and the Minzdrav SSSR (Ministry of
Health USSR). There is 1 table.

ASSOCIATION: Radiologicheskaya laboratoriya Vsescyuznogo Tsentral'nogo
nauchno-issledovatel'skogo instituta okhrany truda VTsSPS
(Radiologic Laboratory of the All-Union Central Scientific
Research Institute for Labor Protection VTsSPS)

Table: Classification of radioactive substances (activity at the work
place in millicurie). Legend: 1) group and characteristic of the
substance; 2) examples of radioactive isotopes; 3) maximum permissible
concentration in the air in curie/m³; 4) class; A) especially high
toxicity; B) high toxicity; C) medium toxicity; D) lower toxicity.

Card 4/5

GURVITS, S.S., kand.biol.nauk

Review of the book "Polarographic analysis in industrial sanitary
chemistry, by I.B.Kogan. Gig. i san. 28 no.1:121-122 Ja '63.
(AIR--ANALYSIS) (POLAROGRAPHY) (MIRA 16:7)
(KOGAN, I.B.)

GURVITS, T.V.

Factors of coagulation of the blood in an insultus. Vop.
psikh. i nevr. no.9:111-117 '62. (MIRA 17:1)

1. Nervnoye otdeleniye (zav. - doktor med. nauk G.Z. Levin)
Gosudarstvennogo nauchno-issledovatel'skogo psichonevrolo-
gicheskogo instituta imeni V.M. Bekhtereva (dir. - B.A.
Lebedev).

GURVITS, T.V.

Comparative evaluation of some methods of study of the coagulative properties of the blood in the process of treatment of ischemic insults with anticoagulants. Zhur. nevr. i psikh. 63 no.4:526-530 '63. (MIRA 17:2)

1. Nevrologicheskoye sosudistoye otdeleniye (nauchnyy rukovoditel' - prof. G.Z. Levin) Nauchno-issledovatel'skogo psichonevrologicheskogo instituta imeni V.M. Bekhtereva, Leningrad.

ACC NR: 10000001

SOURCE CODE: UR/0230/66/000/004/0107/0114

AUTHOR: Curvits, Ye. A. (Moscow)

ORG: none

TITLE: The design of shift registers

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 4, 1966, 107-114

TOPIC TAGS: shift register, logic design, logic circuit, storage device

ABSTRACT: The problem of designing a synchronous shift register with a minimum or near-minimum of storage elements and various speeds is investigated. Such a shift register may have several inputs which receive pulses from other sources, as well as clock inputs for synchronization pulses. The state of the storage elements coincides with the instantaneous state of the output signals. The synthesis method chosen indicates in the first analysis phase whether a particular design represents the minimum element configuration. The method is based on evaluation of truth tables and structural formulas for the shift register design to be optimized. The author derives the relations for the minimum number of needed states and elements, as well as for the conditions for achieving an optimum design. He shows that the so-called "single-cycle" and "two-cycle" registers cannot be realized with a minimum of storage elements. The design (structural) equations for these and the minimum element type registers of various speeds are

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ACC NR: AP6088941

derived. For a shift register in which $c < \tau + 1$, where c is the number of clock inputs, and τ is the number of clock pulses required to shift the data through the complete register, the minimum number of storage elements is given by

$$V = \tau + \left[\frac{\tau}{c-1} \right]^1.$$

V is the next integer, greater than the right hand side of this expression, if the computed value turns out to be a fraction. For multistage registers, the author proves that a considerable reduction in the number of elements can be achieved for $c = 3$ or 4 , as compared with the configuration in which $c = 2$. A minimum element configuration can be realized only if $c = \tau + 1$. Nomograms for convenient selection of an optimum configuration for given requirements are included. Orig. art. has: 3 figures, 11 formulas.

SUB CODE: 12,09/ SUBM DATE: 28Oct65/ ORIG REF: 002/ OTH REF: 001

Card 2/2

8 (2)

AUTHOR: Gur'yakov, I. I., Engineer

06297

SOV/119-59-11-11/13

TITLE: New Instruments Planned for the Series Output in the Years
1959-1960

PERIODICAL: Priborostroyeniye, 1959, Nr 11, pp 28-31 (USSR)

ABSTRACT: First, the automatic self-recording concentration meter of the DK1 type is discussed, which is intended for the measurement of lyes and acids and is based upon the principle of determining the electrical conductivity of solutions. The KChP1 instrument is planned for the automatic control, recording, and signaling of the purity of liquid products, and operates by measuring the specific resistance. The RAPIR-2 radiation pyrometer determines the thermal radiation of surfaces of 20-300 C. The RUB-02 control device is planned for the automatic temperature control within the range of from -50 to +1000 C. The temperature transducer for the surface temperature of DTV-018 rollers operates according to the contact method. The photoelectrical high-speed pyrometer of the FOTOPIR S-1 type is planned for the measurement, recording, and signaling of the temperatures of metals. The optical control pyrometer of the OPK-57 type is a so-called incandescent-filament pyrometer and has a red

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New Instruments Planned for the Series Output in the
Years 1959-1960

06297

SOV/119-59-11-11/13

filter for temperatures above 1250 C. The automatic temper-color pyrometer of the TSVETOPIR-1 type is intended for the automatic control and regulation of temper colors of heated bodies. The RAPIR-2 radiation pyrometer is intended for the measurement of the surface temperature according to the infrared emission within the range of from -100 to 50 C. Further, a stationary instrument for the measurement of the moisture of loose and solid materials is described, which operates according to the principle of the measurement of the dielectric constants. Finally, the PE psychrometer is dealt with, which is intended for the automatic measurement and regulation of air- and gas moisture. There are 10 figures and 8 Soviet references.

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8(0), 9(0)

AUTHOR:

Gur'yakov, I. I., Engineer

SOV/119-59-12-15/18

TITLE:

Novel-design Instruments Planned for Mass Production in 1960

PERIODICAL: Priborostroyeniye, 1959, Nr 12, pp 24-26 (USSR)

ABSTRACT:

First, the author discusses an instrument of the TPI-01 type designed for the measurement of heat quantities. It is suited for heat-producing and heat-consuming apparatus. TS1 and TSR-1 are two similar instruments which permit measurement, recording, and summation of the heat quantities measured. Next, the author describes an optical disappearing filament pyrometer of the type OPPIR-017 of which three modifications are manufactured with the following measuring ranges: 800 - 2,000°C, 1,200 - 3,200°C, and 1,500 - 6,000°C. Absorption filters are used for the range above 1,400°C. The RAPIR radiation pyrometer designed for temperature measurement between 2,200 - 4,000°C is shown in figure 4. The automatic electronic pH meter of the pH5 type with glass electrodes is used to measure the concentration of hydrogen ions in aqueous solutions and allows a controller to be connected. The automatic electronic pH meter of the type pH3-00 is designed for the production of antibiotics and permits measurement, control,

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SOV/119-59-12-15/18
Novel-design Instruments Planned for Mass Production in 1960

and recording of the pH. The electronic two-coordinate potentiometer of the type EP2K-01 permits measurement and recording of voltages which mutually possess functional dependence. The electronic potentiometers of the type PSR1-21 to -28 [✓] permit signaling, recording, and measurement of vibration amplitudes such as occur in turbines. There are 9 figures.

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9(6)

AUTHOR: Gur'yakov, I. I., Engineer SOV/119-60-1-10/14
TITLE: New Instruments Intended for Series Production in 1960
PERIODICAL: Priborostroyeniye, 1960, Nr 1, pp 24-25 (USSR)
ABSTRACT: The author first discusses the instrument of the type EMVD-01, which is intended for the simultaneous measurement of the salt concentration in water, of boiler feeding, and of the O₂-content in the waste gases of the boiler heating system, and which is constructed as an automatic bridge circuit with rotating dial. The automatic electronic bridge circuits of the type-series MSR1-17, MSR1-22 to MSR1-30, which are built in miniature and have a recording- and indicator system, are then discussed. The instruments were designed by the TsKTI im. Polzunova (TsKTI imeni Polzunov) for the measurement of the salt content in high-pressure boilers. The resistance thermometer of the type LPr-017 is intended for temperature measurement at twelve points. It is produced by the sovnarkhoz Armyanskoy SSR (sovnarkhoz Armyanskaya SSR). The ratiometer (current ratio measurer) of

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New Instruments Intended for Series Production
in 1960

SOV/119-60-1-10/14

the type LMPr1-01 is a telemeter- and indicator instrument for water - gas vapors and for air supply in metallurgical plants. The apparatus of the type EMDS-26 is intended for the periodical measurement and signaling of the heating of individual parts of machines in operation, such as bearings, etc., and it permits evaluation of twelve measuring points and operates with a resistance thermometer. There are 5 figures and 1 table.

✓

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28(1)

AUTHOR:

Gur'yakov, I.I., Engineer

S/119/60/000/02/014/015

B014/B014

TITLE:

New Instruments Intended to Be Mass-produced in 1960

PERIODICAL:

Priborostroyeniye, 1960, Nr 2 pp 30-32 (USSR)

ABSTRACT:

The author first describes the automatic electronic small-size indicating and controlling potentiometer of the type PPR4 and the bridge of the type MPR4, which are suited for commercial application. Both instruments are designed for temperature regulation. The potentiometer operates with thermocouples or radiation pyrometers and the bridge with resistance thermometers. Eight modifications of each instrument are given. Furthermore, the author describes sixteen modifications of the automatic electronic small-size indicating and controlling instrument of the type DPR4 which is also designed for commercial application. It operates with a differential transformer transmitter and determines pressures, consumption, and levels. The automatic electronic small-size indicating, recording, and controlling instruments of the types DSM2 and DSMR2, which have a differential transformer circuit and an indicator tape 100 mm wide, are designed for measuring pressure,

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New Instruments Intended to Be Mass-produced
in 1960

S/119/60/000/02/014/015
B014/B014

exhaustion etc in industrial processes. The automatic electronic indicating, recording, and controlling small-size potentiometers of the types PSM2 and PSMR2 as well as the bridges of the types MSM2 and MSMR2 are suited for temperature measurement by means of thermocouples, radiation pyrometers, and resistance thermometers. These instruments are provided with an indicator tape 100 mm wide. Figure 5 shows an automatic small size indicating, recording, and controlling instrument designed for measurement at two, three, six, and twelve points. It has a differential transformer measuring circuit and records on a tape 160 mm wide. Those quantities are measured to which differential transformer transmitters respond. There are 5 figures.

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69632

AUTHOR: Gur'yakov, I. I., Engineer S/119/60/000/05/013/014
E014/B007

TITLE: New Instruments Intended to be Produced in Series in 1960

PERIODICAL: Priborostroyeniye, 1960, Nr 5, pp 29-32 (USSR)

TEXT: First, the "chromathermograph" of the type KhT-2M, which is intended for the analysis of natural gases, is discussed. Figure 1 shows a view of the instrument produced in the Moskovskiy oblastsovarkhoz (Moscow oblast' sovnarkhoz). The author then discusses the automatic oxygen gas analyzer of the type MN-5106¹, which is produced by the Kiyevskiy sovnarkhoz (Kiyev sovnarkhoz). The instrument operates with a compensation bridge (Fig 2); figure 3 shows an assembly scheme. The magnetoelectric current ratio regulating instrument of the type LR 1², the basic scheme of which is shown in figure 5, is intended for two- and three-position regulating devices. It is produced by the Sovnarkhoz Arm. SSR (Sovnarkhoz Armyanskaya SSR). The magnetoelectric regulating millivoltmeter of the type Mr-1³ operates on the basis of the millivoltmeter of the type NPShchPr-54⁴ and is also produced by the Sovnarkhoz Arm. SSR (Sovnarkhoz Armyanskaya SSR). Next, the two differential manometers of the types DMPK-100⁵ and DPK-101 are discussed. They are pneumatic compensation instruments with miniature membranes, which

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are produced by the Tatarskiy sovnarkhoz (Tatar sovnarkhoz). A similar instrument of the type DMPK-12 is finally discussed, which is produced by the same sovnarkhoz. All these differential manometers are intended for the regulation of pressure gradients of gases and liquids, they may be used for the control of discharge of neutral and aggressive liquids and gases. There are 7 figures.

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S/119/60/000/06/13/016
B014/B014

AUTHOR: Gur'yakov, I. I., Engineer

TITLE: Series Production of New Instruments in 1960

PERIODICAL: Priborostroyeniye, 1960, No. 6, pp. 30-31

TEXT: By way of introduction, the author describes the pneumatic compensating differential pressure gauge of the type ДСПК-10 (DSPK-10). It is designed for measuring pressure drops of neutral media, and has six measuring ranges within the range 0-400 mm column of water. It is manufactured by the Tatarskiy sovnarkhoz (Tatar sovnarkhoz). - The electronic level signaler of the type ЭГУ-1 (ESU-1) is designed for signaling the level of a medium and works as a capacitive signaler. - The author finally describes an electronic level indicator of the type ИУ-1 (IU-1). This capacitive measuring instrument is used for telemetering the levels of liquid media and loose materials with different dielectric properties. It is manufactured by the sovnarkhoz Kirgizskoy SSR (sovnarkhoz of the Kirgizskaya SSR). There are 3 figures.

Card 1/1

GUR'YAKOV, I.I.

New chromatographs. Priborostroenie no.10:27-28 0 '61.
(MIRA 14:9)
(Chromatographic analysis--Equipment and supplies)

GUR'YAN, I.Ye., vrach

Why they use Pirquet's reaction. Zdorov'e 5 no.3:30 Mr '59.
(MIRA 12:3)
(TUBERCULOSIS--DIAGNOSIS)

GUR'YAN, I.Ye.

Differential diagnosis of encysted effusions of the pleural cavity. Sov.med. 26 no.7:118-122 J1 '62. (MIRA 15:11)

1. Iz diagnosticheskogo otdeleniya (zav. - prof. D.D.Aseyev) Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - kand.med.nauk V.F.Chernyshev) Ministerstva zdravookhraneniya RSFSR.
(PLEURA--DISEASES) (DIAGNOSIS, DIFFERENTIAL)

GUR'YAN, L.Ye., aspirant

Exudative pleurisy; according to dispensary data. Probl.tub. 39
no.2:47-51 '61. (MIRA 14:3)

1. Iz diagnosticheskogo otdeleniya (zav. - prof. D.D. Aseyev)
Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza
Ministerstva zdravookhraneniya RSFSR (dir. - kand.med.nauk V.F.
Chernyshev, zam. direktora po nauchnoy chasti - prof. D.D. Aseyev).
(PLEURISY) (PLEURA-TUBERCULOSIS)

Jun 48

Sov/Medicine - Tuberculosis
Medicine - Penicillin

"Penicillin in the Treatment of Fistulas in
Tuberculous Cases Other Than Those With Tuberculosis
of the Lungs," I. V. Gur'yan, Dept. of Tuberculosis Inst,
in Bones, Moscow Oblast Sci Res Tuberculosis Inst,
1 3/4 pp

"Sov Med" No 6
Reports case histories. Concludes that penicillin
had no effect against generalized tuberculosis in bones.
but no effect against latent forms
new fistulas and acute tuberculous fistulas
Penicillin proved effective against

Jun 48

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617520006-4"

15/49189

GUR'YAN, L. V.

Jun 48

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617520006-4"

Sov/Medicine - Tuberculosis (Contd)
Medicine - Penicillin
Treatment of Koch's disease
of tuberculosis in bones and joints complicated
by chronic fistulas. Prohibition for penicillin treat-
ment.

GUR'YAN, I. V.

USSR/Medicine - Tuberculosis
Streptomycin

Aug 49

"Course of Osteotubercular Processes in Meningitic Cases," I. V. Gur'yan Moscow, 1/2 p

"Sov Med" No 8

152T64
Describes streptomycin therapy of four cases with osteoarticular tuberculosis complicated with meningitis. After sixth or seventh injection, the usual conservative methods were used. Weekly tests (for Koch's bacillus, flora, cytosis, Pandy's test, PA Nonne-Apelt reaction) established that very small doses of streptomycin introduced into the cisterna

USSR/Medicine - Tuberculosis (Contd)

Aug 49

and cerebrospinal canal produced no appreciable effect on the osseous processes. Amount of streptomycin administered during complete treatment was 2-5 million units. On the strength of the fact that neither the meningitis nor the streptomycin affects the osseous process, all conservative treatments should be continued.

152T64

152T64

STANISLAVLEVA, Ye.N.; KALINOVSKAYA, Ye.N.; GUR'YAN, L.V. (Moskva)

Achievements and the immediate tasks of surgery in the treatment of
osteocarticular tuberculosis. Zdrav.Bos.Feder. 3 no.7:34-37 J1 '59.
(MIRA 13:1)
(JOINTS--TUBERCULOSIS) (SURGERY)

GUR'YAN, Ye. V.

"Methods of Investigation of Fistular Forms of Bone Joint Tuberculosis and Their Treatment With Penicillin." Sub 18 Sep 51, Central Inst for the Advanced Training of Physicians.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

GUR'YAN, Ye.V., kand.med.nauk

Some changes in the tactics of treatment of bone and joint tuberculosi s under the influence of antibacterial therapy. Vop. epid.
i klin. tub. 5:97-105 '58. (MIRA 14:12)
(BONES--TUBERCULOSIS) (JOINTS--TUBERCULOSIS)

GUR'YAN, Ye.V., kand.meditinskikh nauk

Extropleural and transperitoneal surgical approach in tuberculous spondylitis. Ortrop.travm.i protez. 21 no.5:58-61 My '60.
(MIRA 13:9)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza Ministerstva zdravookhraneniya RSFSR (dir. - kand.med.nauk V.F. Chernyshev).

(SPINE—SURGERY)

STANISLAVLEVA, Ye.N., kand.med.nauk; GUR'YAN, Ye.V., kand.med.nauk;
MAMIKOYANTS, N.G.

Medical surgical interventions in tuberculous spondylitis.
Khirurgija 36 no.11:105-111 N '60. (MIRA 13:12)

1. Iz kostno-khirurgicheskogo otdeleniya (zav. - kand.med.nauk
Ye.N. Stanislavleva) Moskovskogo nauchno-issledovatel'skogo
instituta tuberkuleza.
(SPINE--TUBERCULOSIS)

GUR'YAN, Ye. V., kand. med. nauk

Importance of supplementary methods of examination in the differential diagnosis of osteoarticular tuberculosis in adults. Probl. tub. no.7: 60-65 '61. (MIRA 14:12)

1. Iz otdeleniya kostno-sustavnogo tuberkuleza (zav. - kandidat meditsinskikh nauk Ye. N. Stanislavleva) Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza Ministerstva zdravookhraneniya RSFSR (dir. - kandidat meditsinskikh nauk V. F. Chernyshev, zam. redaktora po nauchnoy chasti - prof. D. D. Aseyev)

(BONES—TUBERCULOSIS)

GUR'YAN, Ye. V., starshiy nauchnyy sotrudnik; TEODOR, I. L., mladshiy nauchnyy sotrudnik

Cytological examination in surgical treatment of osteo-articular tuberculosis. Ortop., travm. i protez. no. 3:67-68
'62. (MIRA 15:6)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza Minzdrava RSFSR (dir. - kand. med. nauk T. P. Mochalova)

(DIAGNOSIS, CYTOLOGIC)
(BONES--TUBERCULOSIS)
(JOINTS—TUBERCULOSIS)

GUR'YAN, Ye.V., kand.med.nauk (Moskva, G-69, Skaternyy pereulok, dom 15,
kv. 3)

Characteristics of surgical interventions in tuberculosis of the
lower cervical, cervicothoracic and upper thoracic segments of the
spine. Ortop., travm.i protez. 24 no.9:7-11 S '63.
(MIRA 17:4)

1. Iz kostnokhirurgicheskogo otdeleniya (zav. - prof. Ye.N.
Stanislavleva) Moskovskogo instituta tuberkuleza Ministerstva
zdravookhraneniya RSFSR (dir. - kand.med.nauk T.P.Mochalova).

GUR'YAN, Ye.V., kand.med.nauk; SAGALOVICH, V.Ya.

Method of "washing through a fistula" in surgery of tuberculous spondylitis. Probl. tub. no.2:47-51 '65.

(MIRA 18:12)

1. Kostno-khirurgicheskoye otdeleniye (zav. - prof. Ye.N. Stanislavleva) Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza (direktor - kand.med.nauk T.P. Mochalova, zamestitel' direktora no nauchnoy chasti - prof. D.D.Aseyev) Ministerstva zdravookhraneniya RSFSR.

GUR'YAN, Ye.V., kand. med. nauk (Moskva Ye-215, 13-ya Parkovaya ul., d.27 korpus 4.)

Lesions of the spinal cord during surgical treatment of tuberculous spondylitis. Ortop., travm. i prtez. 26 no.11:54-59 N '65. (MIRA 18:12)

1. Iz kostnokhirurgicheskogo otdeleniya (zav.. prof. Ye.N. Stanislavleva) Moskovskogo instituta tuberkuleza Ministerstva zdravookhraneniya RSFSR (direktor - kand. med. nauk T.P. Mochalova).

L47071-65 EWT(1)/T/EEG(b)-2 PL-4 IIP(c) 00

ACCESSION NR: AP5007029

S/0120/65/000/001/0078/0081

AUTHOR: Belyayevskiy, A. I.; Gur'yan, Yu. A.; Cheskoy, V. I.

TITLE: Calibrating large scintillation crystals

SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1965, 78-81

TOPIC TAGS: scintillation crystal, scintillation crystal calibration

ABSTRACT: The flash caused by single-energy electrons isolated by a magnetic field is used for calibration of large scintillation crystals in an outfit shown in Enclosure 1. The electrons set up by gamma-quanta in lead target 3 are deflected by analyzing magnet 5. By varying the field strength of the latter, various-energy electrons can be directed along the selected trajectory and the curves of photomultiplier-pulse-amplitude vs. electron energy (20-100 Mev) can be obtained. A standard cosmic mu-meson spectrum was used for comparing the calibration of a crystal with the calibration of other similar crystals. Results of

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L 47091-65

ACCESSION NR: AP5007029

the calibration of NaI(Tl) 100-mm diameter and 100- and 60-mm height crystals are reported. "The authors wish to thank the employees of A. P. Kavard's laboratory for their cooperation, and I. F. Bugakov for his help in assembling the electronic equipment." Orig. art. has: 6 figures and 1 table.

ASSOCIATION: Fiziko-tehnicheskiy institut AN SSSR (Physical-Technical Institute, AN SSSR)

SUBMITTED: 29 Nov 63

ENCL: 01

SUB COMIN: NP

NO REF SOV: 001

OTHER: 002

Card 2/3

BELYAYEVSKIY, A.I.; GUR'YAN, Yu.A.

The 11-counter apparatus for $\gamma\gamma$ -angular correlation measurements. Izv.AN SSSR.Ser.fiz. 25 no.10:1291-1301. O '61.
(MIRA 14:10)

1. Fiziko-tehnicheskiy institut im. A.F.Ioffe Akademii nauk SSSR.
(Gamma-ray spectrometer)

ACC NR: AP6034589

(N)

SOURCE CODE: UR/0375/66/000/011/0066/0068

AUTHOR: Gür'yanov, A. A. (Lieutenant Colonel; ~~Medical Services~~)

ORG: None

TITLE: Rescue at sea with airborne equipment

SOURCE: Morskoy sbornik, no. 11, 1966, 66-68

TOPIC TAGS: survival training, survival tactic, survival equipment, helicopter, ~~aircraft~~, aircraft escape equipment, airdrop equipment, ~~medical~~ protective clothing /MI-4SP helicopter

ABSTRACT: A brief outline of rescue at sea operations is presented. Problems inherent in the procedure for abandoning fixed and rotary wing aircraft over water are discussed. The reasons for singling out the MI-4SP helicopter as the most suitable rescue vehicle are given. Three methods of lifting personnel out of the water by helicopter are described. Emphasis is placed on the need for providing immediate medical attention to the victims. The use of medical personnel wearing special protective suits is seen as the best method for providing emergency attention. Orig. art. has: 3 figures and 1 table.

SUB CODE: 01, 15/SUBM DATE: None

Card 1/1

GUR'YANOV, A.A., podpolkovnik meditsinskoy sluzhby

Emergency evacuation of people from forests by means of
helicopters. Voen.-med. zhur. no. 1:13-16 Ja '66
(MIRA 19:1)

GUR'YANOV, A.G., inzh.

Automatic temperature control. Energetik 11 no.2:16-17 F '63.
(MIRÄ 16:3)
(Temperature regulators)

GUR'YANOV, A. I., Cand Med Sci -- (diss) "On the Diagnostics of Transmissions Granozan [?]" (Experimental research). Rovno, 1959; 15 pages; (Kiev Order of Labor Red Banner Medical Institute im Acad. A. A. Bogomol'ets). 300 copies; price not given. IKL, 18-60, 156.

VOLCHKOV, I.I., inzh.; GUR'YANOV, A.I., inzh.

Hoist for hopper feeding. Mekh.i avtom.proizv. 17 no.11:34 N
'63. (MIRA 17:4)

MAKSIMENKO, M.Z.; SAL'YEV, A.P.; GUR'yANOV, A.I.; AMMOSOVA, T.S.; IDZEL'-
SKYEV, I.Ya.

Investigating certain designs of extraction apparatus in a
lubricant-phenol system. Nefteper. i neftekhim. no.6:41-44
'64. (MIRA 17:9)

1. Novo-Ufimskiy neftepererabatyvayushchiy zavod i Kazanskiy
khimiko-tehnologicheskiy institut.

GUR'YANOV, Aleksandr Vladimirovich; VOROB'YEV, V.P., red.; PANKRATOV,
A.I., tekhn.red.

[Arithmetic of socialism in the Savinovs' house] Arifmetika
sotsializma v dome Savinovykh. Ivanovo, Ivanovskoe knizhnoe
izd-vo, 1961. 95 p. (MIRA 15:5)
(Collective farms)
(Home economics, Rural)

GUR'YANOV, Anatoliy Petrovich; ORLOVA, L.A., red.; VINOGRADOVA, G.A., tekhn.
red.

[The P-66-5M and PU-66-5M spinning machines] Priadil'nye mashiny
P-66-5M i PU-66-5M. Pod red. A.S.Velikovskogo. Moskva, Izd-vo
nauchno-tekhn. lit-ry RSFSR, 1960. 104 p. (MIRA 14:7)
(Spinning machinery)

L 1145-66

(A)

EWP(c)/EWP(j)/EWP(k)/EWT(d)/EWT(m)/T/EWP(1)/EWP(v) RM

ACCESSION NR: AP5021996

UR/0286/65/000/014/0074/0074

678.058.3

678.065

A2
B

AUTHOR: Gur'yanov, B. I.; Loshakevich, B. P.; Pinovskiy, M. L.; Gavrilova, F. A.;
Yur'yev, S. I.; Pankov, A. A.; Mikushin, N. S.; Proselkova, Ye. P.

TITLE: A semiautomatic transfer machine for refilling the molds in autoclave
tire vulcanization. Class 39, No. 172976

SOURCE: Byulleten' izobreteniij i tovarnykh znakov, no. 14, 1965, 74

TOPIC TAGS: industrial automation, vulcanization, rubber working machinery

ABSTRACT: This Author's Certificate introduces a semiautomatic transfer machine
for refilling the molds in autoclave tire vulcanization. The machine is a closed
circular device with a centrally located automatic operator and devices for angular
orientation of the molds as well as for opening and steam cleaning them. The
machine is designed for complete mechanization of the process of extracting the
tire from the mold after opening, regardless of whether the finished tire is in
the upper or lower half of the mold. The automatic extraction device is made in
the form of a bracket which rotates on a vertical axle. This bracket carries a

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ACCESSION NR: AP5021996

pair of horizontal discs which move in the vertical direction. These discs are equipped with symmetrically telescoping clamps for grasping the tires from the inside in the upper or lower position.

ASSOCIATION: none

SUBMITTED: 160ct61

ENCL: 01

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

Card 2/3

L 1145-66

ACCESSION NR: AP5021996

ENCLOSURE: 01

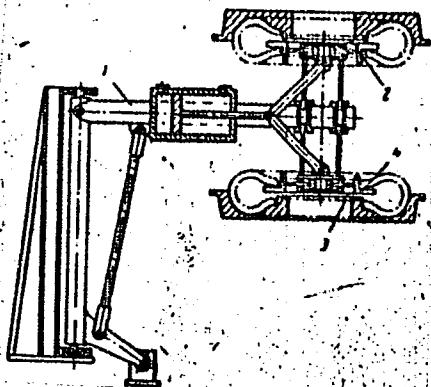


Fig. 1, 1--bracket; 2 and 3--discs; 4--clamps

120
Card 3/3

GUR'YANOV, G.A., uchitel'

Mumification of birds. Biol. v shkole no.2:85-87 Mr-Ap '59.

(MIRA 12:4)

1. Shkola No.45, Baku.

(Birds--Collection and preservation--Study and teaching)

BAD'YANOV, V.A.; GUR'YANOV, G.N.; MUKHARSKIY, E.D.; POLUYAN, I.G.;
LUGOVAYA, V.M.

Preparing for commercial experiment by the simultaneous development
of the oil pools of the Upper Touranian substage and the coal-
bearing series of the Lower Carboniferous in the Bavli oil field.
Nefteprom. delo no.8:11-13 '64. (MIRA 17:12)

1. Tatarskiy neftyanoy nauchno-issledovatel'skiy institut,
Bugul'ma, i Neftepromyslovoye upravleniye "Bavlyneft".

GUR'YANOV, I. N.

Gur'yanov, I. N.

"The analytic theory of integral-differential equations of the
Vol'terr type." Kazakh State U imeni S. M. Kirov. Alma-Ata, 1956
(Dissertation for the degree of Candidate in Physicomathematical
Sciences)

Knizhnaya letopis'
No. 25, 1956. Moscow

50-51

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow M
Jun-Jul '56, Trudy '56, v. 1, Sect. Rpts. Izdatel'stvo AM SSSR, Moscow, 1956, 237 pp.
Some Types of Singular Integral Equations Solvable In
Closed Form. 48-49

Gel'fond, A. O. (Moscow). On the Evaluation of Certain
Determinants and the Application of These Evaluations to
Eigen-value Distributions.

49-50

Gradshteyn, I. S. (Moscow). Cauchy Problem and Asymptotic
Series for Differential Equation Systems With Small Factors
at the Derivatives.

50-51

Gur'yanov, I. (Yoshkar-Ola). On the Analytical Theory of
Integral-differential Equations of Volterra Type.

51

Guseynov, A. I. (Baku), Abasov, A. M. (Baku). Investigation
of the Properties of Non-linear Singular Operators.

51-52

Demidovich, B. P. (Moscow). Bounded Solutions of a Certain
Non-linear System of Differential Equations.

52

Card 16/80

GUR'YANOV, I.N.

Charater of convergence of continued fractions with any number
of terms. Usp. mat. nauk 15 no.2:173-180 Mr-Ap '60.
(MIRA 13:9)

(Fractions, Continued)

GUR'YANOV, I.N.

Analytical theory of integrodifferential equations. Issl.
po int.-diff. urav. v Kir. no.1:251-263 '61. (MIRA 15:2)
(Integrodifferential equations)

16,4500

S/044/62/000/007/031/100
C111/C222

AUTHORS: Bykov, Ya.V., Gur'yanov, I.N.

TITLE: On some questions of the qualitative theory of equations of Volterra type

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 58-59,
abstract 7B282. ("Izv. AN Kirg SSR. Ser. yestestv. i. tekhn.
n.", 1961, 3, no. 1, 5-33) JA

TEXT: The authors carry out a qualitative investigation of the solutions of the non-linear system of integral equations

$$u(x) = f(x) + \psi(x, u) + \int_a^x K(x, t)u(t)dt + \int_a^b M(x, t)F[u(t)]dt, \quad (1)$$

where u , ψ and F are n -dimensional vectors, while $K(x, t)$ and $M(x, t)$ are $n \times n$ - matrices.

In the §§ 1,2 the solutions of the system

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S/044/62/000/007/031/100

On some questions of the qualitative ...

C111/C222

$$u(x) = f(x) + \int_a^x K(x,t)u(t)dt \quad (2)$$

are constructed according to the operator method of Mikusinski, if

1) $K(x,t) = \sum Q_i(x-t) \exp[-\theta_i(x-t)]$ is a quasipolynomial matrix (\S 1)
 and 2) $K(x,t) = K[\psi(x) - \psi(t)]$ (\S 2); there the characteristic polynomial $\psi(s)$ can possess simple and multiple roots. Some criteria for the stability of the solutions of (2) and the equation

$$u(x) = f(x) + \int_a^x K(x-t)u(t)dt + \int_a^b M(x,t)F[u(t)]dt \quad (3)$$

are considered in \S 3. The kernel $K(x,t)$ of (2) is called stable on $[a, \infty)$ (or on $(-\infty, a]$), if to every $\epsilon > 0$ there is a $\delta > 0$ such that from $\|f(x)\| \leq \delta$ it follows $\|u(x)\| < \epsilon$ for all $x \in [a, \infty)$ (or $x \in (-\infty, a]$). If in (3) $F[\cdot]$ is a linear operator, $K(x,t)$ a quasipolynomial stable kernel and if $M(x,t)$ and $F[M(x,t)]$ are bounded for all $a \leq x < \infty$, $a \leq t \leq b$, then $\|u(x)\| < \epsilon$ as soon as

$|f^{(i)}(x)| \leq \gamma$ ($a \leq x$; $i = 0, 1, \dots, n$). In \S 4 the authors investigate

Card 2/4

S/044/62/000/007/031/100

On some questions of the qualitative ... C111/C222

conditions for the existence of limit cycles and almost-limit cycles of the system

$$u(x) = f(x) + \psi(x, u) + \int_a^x K(x, t)u(t)dt . \quad (4)$$

A periodic (according to Bohr almost periodic) curve $v(x) = (v_1(x), \dots, v_n(x))$ is called limit cycle of (4), if

$$\|u(x) - v(x)\| = \sum_{k=1}^n |u_k(x) - v_k(x)| \rightarrow 0 ,$$

$x \rightarrow \infty$ ($x \rightarrow -\infty$).

From the results of this paragraph the following may be mentioned. If all real parts α_i of the roots of the polynomial $\psi(s)$ are negative,

$$\|\psi(x, u)\| \leq \rho(x) + \gamma(x) \|u\| ; \quad \gamma(x) < 1 ;$$

$$\rho(x) \rightarrow 0, \quad \int_a^x \gamma(t)dt$$

Card 3/4

S/044/62/000/007/031/100

On some questions of the qualitative ... C111/C222

converges for $x \rightarrow \infty$, and if $f(x)$ is a periodic (almost periodic) function, then (4) possesses a limit cycle (almost-limit cycle). If in (5)

$$K(x + \omega, t) = K(x, t) ; f(x + \omega) = f(x) ;$$

$$\|M(x, t)\| < N, \|F[u(t)]\| < P$$

for all $a \leq t \leq b$, and if all $\omega_i < 0$, then (3) possesses a limit cycle (almost-limit cycle). In § 5 necessary and sufficient conditions are given that (2) possesses periodic, almost periodic and periodic solutions with change of sign after a semiperiod. In § 6 the authors construct solutions of the system

$$\int_a^x K(x-t)u(t)dt = f(x)$$

according to the operator method of Mikusinski; conditions for the stability and existence of limit cycles are given.

Abstracter's note : Complete translation.

Card 4/4

AUTHOR: Gur'yanov, N.A.

68-58-2-17/21

TITLE: A Method of Protecting the Rotors of a Gas Booster from Corrosion (Metod zashchity rotorov gazoduvok ot korrozii)

PERIODICAL: Koks i Khimiya, 1958, Nr 2, pp 59-60 (USSR)

ABSTRACT: Observations were made that with fine crushing of coal blends (-3 mm 94.5 - 95%), an increase of the precipitation of dirt on the rotors and other parts of the gas boosters took place. This caused excessive corrosion of boosters taken out of operation. In order to protect rotors from corrosion, a system of lubrication of non-operating boosters was developed, the details of which are outlined (figure). Two years' operation of the system gave very good results. There is 1 figure.

ASSOCIATION: Kuznetskiy metallurgicheskiy kombinat
(Kuznetskiy Metallurgical Combine)

AVAILABLE: Library of Congress
Card 1/1

1. Coal - Processing - Equipment
2. Rotors -
Corrosion prevention

SOV/68-59-3-16/23

AUTHOR: Gur'yanov, N.A.,

TITLE: The Choice of Filtering Materials for Drum Vacuo Filters
for the Anthracene Fraction (Vybor fil'truyushchikh
materialov k barabannym vakuum-fil'tram dlya
antratsenovoy fraktsii)

PERIODICAL: Koks i Khimiya, 1959, Nr 3, p 57 (USSR)

ABSTRACT: A satisfactory operation of the filter was obtained by
using brass netting No.70 fixed by soldering on the drum
as a filtering cloth.

ASSOCIATION: Kuznetskiy metallurgicheskiy kombinat (Kuznetsk
Metallurgical Combine)

Card 1/1

L 01485-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k)/EWA(h)/ETC(m) WW/EM

ACCESSION NR: AR5019375

UR/0124/65/000/007/V010/V010

SOURCE: Ref. zh. Mekhanika, Abs. 7V66

25
B

AUTHOR: Zhigalko, Yu. P.; Gur'yanov, N.G.

TITLE: A thin, simply supported cylindrical shell with localized loading

CITED SOURCE: Sb. Itog. Nauchn. konferentsiya Kazansk. un-ta za 1963 g. Sekts. matem., kibernet. i teoriya veroyatn., mekhan. Kazan', 1964, 133-134

TOPIC TAGS: cylindric shell structure, digital computer program, shell deformation, thin shell structure, shell theory

TRANSLATION: The authors discuss a closed cylindrical shell, simply supported at its ends and subjected to an external surface load localized over a rectangular area with sides parallel to the lines of curvature. It is assumed that the load vector at any given point is parallel to the vector of an internal normal at some fixed point with a radial coordinate situated in the interval $-\pi/2 + Q_0 \leq Q \leq \pi/2 - Q_0$. Here, $2Q_0$ is the dimensionless length of the loading area in a radial direction. The problem is solved in permutations. Initial equations are of the Donnell type. Stress components are expanded in double trigonometric series. Permutations are written in the form of Card 1/2

L 01485-66

ACCESSION NR: AR5019375

O
analogous series with coefficients defined from the initial equations. Specific consideration is given to a case of vertical loading at a level assumed to be either constant or linearly distributed. Solutions for loads concentrated at a point and along lines of curvature are obtained by final transition. The results are programmed for calculation on a digital computer.

SUB CODE: AS, MA

ENCL: 00

Card 2/2 SP

GUR'YANOV, P.I.

The PPB-3M mobile poultry plant. Biul.tekh.-ekon.inform. no.5:49-50
'61. (MIRA 14:6)
(Poultry plants)

GUR'YANOV, P.P.

Filling our applications for inventions. Izobr. v SSSR 1 no.1:33-37
Jl '56. (MLRA 10:3)
(Patent law and legislation)

ZHMYKHOVA, nna; BORODIN, Ye., red.; GERSHANOV, Ye., red.;
~~GUR'YANOV, S.~~, red.; KARZANOV, V., red.; IVANOV, Ye.,
red.; MAMSUROVA, L., red.; MEDVEDEV, A., red.; KADYROVA, Z.,
red.

[International Confederation of Free Trade Unions; academic
lectures on the "International labor and trade-union move-
ment"] Mezhdunarodnaia konfederatsiia svobodnykh profsoiu-
zov; uchebnye lektsii po distsipline "Mezhdunarodnoe rabe-
chee i profsoiuznoe dvizhenie. Moskva, Kursy profdvizheniya
dlia profaktivistov iz stran Azii, Afriki i Latinskoi
Ameriki, 1963. 51 p. (MIRA 17:9)

GUR'YANOV, S.; VASIL'YEV, S.; BELOZEROV, A.; KIFORENKO, Ye.

A new grain elevator in the Virgin Territory. Mu...-elev. prom.
29 no.2:5 F '63. (MIRA 16:8)

1. Direktor Adyrskogo khlebopriyemnogo punkta TSelinnogo kraya
(for Gur'yanov).
2. Sekretar' partiynoy organizatsii Adyrskogo
khlebopriyemnogo punkta TSelinnogo kraya (for Vasil'yev).
3. Predsedatel' mestnogo komiteta Adyrskogo khlebopriyemnogo punkta
TSelinnogo kraja (for Belozerov).
4. Sekretar' komsomol'skoy
organizatsii Adyrskogo khlebopriyemnogo punkta TSelinnogo kraja
(for Kiforenko).

(Adyr--Grain elevators)

GUR'YANOV, S. I.

USSR/Electricity - Distribution Systems
Planning

Sep 52

"Certain Deficiencies in the Planning of Electrotechnical Installations," Engr

S. I. Gur'yanov

Prom Energet^z, No 9, pp 22-24

Cites numerous cases of plans for transformer substations (up to 320 kva) by different planning organizations, planning and design bureaus, where plans were not coordinated with "Rules for Construction of Electrotechnical Installations" (^{instructions} Pravila ustroystva elektrotekhnicheskikh ustroystvok) and lack for coordination of plans (28% of plans of one "energosbyt" in 1951 were found uncoordinated). Calls for more exchange of experience, better lines of responsibility among planning organizations.

77
T

GUR'YANOV, Sergey Khrisanfovich; BLOKHIN, N.N., red.; SHADRINA, N.D.,
tekhn.red.

[Organization of wages in the U.S.S.R. industry] Organizatsiia
oplata truda v promyshlennosti SSSR. Moskva, Izd-vo VTsSPS
Profizdat, 1960. 148 p. (MIRA 13:8)
(Wages)

GUR'YANOV, Sergey Khristanovich; KUZNETSOV, P.V., red.; PONOMAREVA,
A.A., tekhn.red.

[Analyzing the fulfillment of the labor plan in an industrial
enterprise] Analiz vypolneniya plana po trudu na promyshlennom
predpriatii. Moskva, Gos.izd-vo planovo-ekon.lit-ry, 1961. 75 p.
(MIRA 14:6)

(Productivity accounting) (Wage payment systems)
(Labor and laboring classes)

KUDRYAVTSEV, A.S., prof., doktor ekonom. nauk, zasl. deyatel' nauki i
tekhniki RSFSR; LYASNIKOV, I.A., dots.; KOSTIN, L.A., dots.;
PUNSKIY, Ya.M., prof.; PETROCHENKO, P.F., kand. ekonom. nauk;
GUR'YANOV, S.Kh., dots.; KURKIN, N.I., st. prepodavatel';
KOTOV, F.I., dots.; REMIZOV, K.S., kand. ekonom. nauk;
POLYAKOV, I.A., starshiy prepodavatel'; BEZRUKOV, B.N., retsen-
zent; KOPYLOVA, L.P., red.; ANDREYEVA, L.S., tekhn. red.

[Labor economics in the U.S.S.R.] Ekonomika truda v SSSR. 2.,
perer. izd. Moskva, Izd-vo VtSSPS Profizdat, 1961. 623 p.
(MIRA 15:2)

(Labor and laboring classes)

GUR'YANOV, Sergey Khrisanfovich; POLYAKOV, Ivan Avdeyevich; REMIZOV,
Konstantin Sergeyevich; VORONOV, V.V., red.; PETRUSHEV, I.M.,
red.; PONOMAREVA, A.A., tekhn. red.

[Labor economist's reference book; method for calculating the
economics of labor in an industrial enterprise] Spravochnik
ekonomista po trudu; metodika raschetov po ekonomike truda na
promyshlennom predpriatii. Moskva, Izd-vo ekon. lit-ry,
1962. 285 p. (MIRA 15:3)

(Labor and laboring classes)
(Industrial management)

GUR'YANOV, Sergey Khrisanfovich; POLYAKOV, Ivan Avdeyevich; REMIZOV,
Konstantin Sergeyevich; PETRUSHEV, I.M., red.; PONOMAREVA,
A.A., tekhn. red.

[Labor economist's manual; method for planning labor
economics in an industrial enterprise] Spravochnik ekono-
mista po trudu; metodika raschetov po ekonomike truda na
promyshlennom predpriatii. Izd.2., ispr. i dop. Moskva,
Ekonomizdat, 1963. 295 p. (MIRA 16:8)

(Labor economics)

GUR'YANOV, V., LITINSKIY, S.

Radio system for remote control of two tractors. Radio no. 4:58-60
Ap '60. (MIRA 13:8)
(Tractors—Radio control)

GUR'YANOV, V.G.

H
Reference to the Contests Automation of Charge Wings and
the place of plant [REDACTED] [REDACTED] [REDACTED]

After the first test of the new charge wings
in the laboratory solution has been
mixed with the pterina multi-component liquid.

AUTHOR:

Gur'yanov, V.G., Engineer

SOV-118-58-9-13/19

TITLE:

Automatic Car Scales (Avtomatizirovannyye vagon-vesy)

PERIODICAL:

Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958,
Nr 9, pp 37-39 (USSR)

ABSTRACT:

In 1953, the Kuznetskiy metallurgicheskiy kombinat-KMK (Kuznetsk Metallurgical Combine) introduced the first mechanization and automation of car scales, and by 1957, all KMK blast-furnaces were equipped with them. The system of automatic control ensures the movements of cars between the charging hoppers and the control post, checking the charge of blast-furnaces. All operator functions are carried out by automatic devices. The magnetic governor is the basic apparatus which relays the impulses for charging and carries out the functions of a hopper computer. The article presents a detailed description of all operations performed by the car scales. The following persons

Card 1/2

Automatic Car Scales

SCV-118-58-9-13/19

assisted in developing this system of car-scale automatic control: B.N. Zherebin, V.I. Petrikeyev, P.F. Igol'nikov, and V.G. Gur'yanov, - Engineers. There are 2 diagrams and 1 schematic drawing.

1. Blast furnaces--Control systems 2. Blast furnaces--Equipment

Card 2/2

ZHEREBIN, Boris Nikolayevich; MINKIN, Valentin Mikhaylovich; MATUSEVICH, Leonid Yakovlevich; GURLYANOV, Vasiliy Grigorevich; MARKHASIN, Yury Abramovich; SHTYREV, Dmitriy Alekseyevich; BALLA, G.F., red.; SOKOLOVSKIY, V.A., red.; DOKUKINA, Ye.V., red. izd-va; DOBUZHINSKAYA, L.V., tekhn. red.

[Expansion of blast furnace production at the Kuznets Metallurgical Combine] Razvitie domennogo proizvodstva na Kuznetskom metallurgicheskem kombinatse. Pod obshchei red. B.N.Zherebina. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 361 p. (MIRA 14:6)
(Stalinsk—Blast furnaces)

GUR'YANOV, V.M. [Gur'yanov, V.M.] (Saratov); KOSMODAMIANSKIY, A.S.
[Kosmodamians'kyi, O.S.] (Saratov)

Effect of the curvature of an isotropic plate with a curvilinear
hole on its stressed state. Prykl.mekh. 9 no.5:487-495 '63.
(MIRA 16:10)

1. Saratovskiy gosudarstvennyy universitet.

J-6786-65 : ENT(1)/EPF(c)/EPF(n)-2/EPR/T/EPA(bb)-2/EWA(1) ER-4/PG-4/PB-4
AEETR/ASD(d)/AFWL/ASD(a)-5/ESD(dp)/RCD(t)/RAEN(t)

ACCESSION NO: AP4047308

8/0140/64/000/005/0017/0022

AUTHOR: Gur'yanov, V. M. (Saratov)

68

TITLE: Error estimate of an approximate solution of the Cauchy problem for systems of ordinary differential equations

SOURCE: IVUZ. Matematika, no. 5, 1964, 17-22

TOPIC TAGS: numerical analysis, differential equation, Cauchy problem, error estimate

ABSTRACT: Let $y(x) = y^0 + \int_0^x f(z, y(z)) dz$. (1)

be the form in which a Cauchy problem for a system of n ordinary differential equations is written. Assuming f satisfies a Lipschitz condition, the author obtains an estimate of the error in approximate solutions other than those generated by the Picard method. In particular, he obtains an estimate of the error in the Runge-Kutta method and chooses the constants in the Runge-Kutta formula to minimize this estimate. He finally derives an estimate for the error of the usual Runge-Kutta method which does not require the summation of many separate error estimates. Orig. art. has 22 formulas.

L 6786-65
ACCESSION NR: AP4047308

ASSOCIATION: none

SUBMITTED: 26Nov63

ENCL #: 00

SUB CODE: MA

NO PEF SOV: 003

OFMENR: 004

Card 2/2

L 7049-65 ENT(m)/EWP(f) AFTC(p)/ASD(f)
ACCESSION NR: AP4043522

S/0258/64/004/003/0486/0404

BR

AUTHOR: Gur'yanov, V. M. (Saratov); Kommidianskiy, A. S. (Saratov)

TITLE : Stress distribution in an isotropic plate weakened by a
Curvilinear hole

SOURCE: Inzhenernyy zhurnal, v. 4, no. 3, 1964, 486-494

TOPIC TAGS: Isotropic plate, thin plate, thin isotropic plate,
hole weakened plate, stress distribution, stress concentration

ABSTRACT: Stress analysis of an infinite, isotropic thin plate
under arbitrary forces (at infinity) acting on its middle surface
is presented. The plate is weakened by a hole of arbitrary smooth
contour. A general solution of the problem is given by superposi-
tion of two stress fields: one in a plain plate and one caused
by the hole. Both fields are described by complex-variable func-
tions determined for the given boundary conditions (for either dis-
placements or stresses prescribed on the hole contour). Holes with

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L 7049-65
ACCESSION NR: AF4043522

unstiffened edges and with a perfectly rigid ring along the hole contour are examined. Results of analysis of stress concentration in a plate under tension with an opening having a shape close to a rectangle with rounded corners are presented. The stress distribution along the contour in cases when the tension is 1) parallel to the long side of the hole, 2) parallel to the short side of the hole, and 3) omnidirectional is evaluated (on the Ural-1 high-speed computer) and plotted in diagrams (for holes with free and with ring-stiffened edges). The effects of the hole's side ratio of fillet curvature are mentioned. Orig. art. has 3 tables, 3 figures, and 16 formulas.

ASSOCIATION: none

ATT'D PRESS: 3104

ENCL: 00

SUBMITTED: 28Mar63

NO REF Sov: 003

OTHER: 000

Card 2/2

L 21819-65 EWT(a) Pg-4 AEDC(a)/ASD(a)-5/AFVIL/ASD(f)-3/AFETRA/ESB(dp)/IJP(c)

ACCESSION NR: AP5004470

S/0040/64/026/004/0783/0786

AUTHOR: Gur'yanov, V. M. (Saratov)

TITLE: Relation between the Runge-Kutta and Picard methods

SOURCE: Prikladnaya matematika i mehanika, v. 28, no. 4, 1964, 783-786

TOPIC TAGS: Runge Kutta integration method, differential equation

Abstract: The Runge-Kutta method for the numerical solution of the Cauchy problem for a system of ordinary differential equations has a well-defined, iterative character. The author shows that this is due to its relation with the Picard iterative method, which affords a means of checking the accuracy of the Runge-Kutta method.

Theorem. The solution of

$$y_r'(x) = f_r(x; y_1, \dots, y_n), \quad y_r(x_0) = y_r^0 \quad (r = 1, \dots, n)$$

by the Runge-Kutta method is i.e.,

$$Y_{r,n}(x) = y_r^0 + h \sum_{i=1}^n p_{r,i} A_{r,i} \quad (r = 1, \dots, n)$$

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ACCESSION NR: AP5004470

is obtained by solving

$$y_r(z) = y_r^* + \int_{t_0}^z f_r(t; y_1(t), \dots, y_n(t)) dt \quad (r = 1, \dots, n)$$

by the Picard method

$$y_{r+1}(z) = y_r^* + \int_{t_0}^z f_r(t; y_{1,r+1}(t), \dots, y_{n,r+1}(t)) dt \quad (r = 1, \dots, n)$$

by means of a successive substitution of integrals in the last expression by numerical quadratures. Orig. art. has 24 formulas.

ASSOCIATION: none

SUBMITTED: 03Apr64

ENCL: 00

SUB CODE: MA

NO REF Sov: 002

OTHER: 001

JPRS

Card 2/2

L 9434-66 EWT(1)/EWA(h) GW

ACC NR: AP5025076

SOURCE CODE: UR/C387/65/000/009/0031/0043

AUTHOR: Gur'yanov, V. M.

ORG: Saratov State University im. N. G. Chernyshevskiy (Saratovskiy
gosudarstvennyy universitet)

TITLE: The radiation method of interpreting hodographs of seismic waves

SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 9, 1965, 31-43

TOPIC TAGS: seismic wave, seismic wave propagation, seismography, seismology,
hodograph, Hamilton equation, Cauchy problem

ABSTRACT: A solution of the Hamilton equation in geometric seismics is proposed
on the basis of the characteristic method. The basic problem of geometric
seismics is one of determining the function for a scalar time field $t = t(x, y, z)$
which satisfies the Hamilton equation

$$(\text{grad } t)^2 = \frac{1}{v^2(x, y, z)}$$

UDC: 550.834

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ACC NR: AP5025076

and an initial condition expressed in the form of a surface hodograph

$$\tau = \tau(\xi, \eta) = t[x_0(\xi, \eta), y_0(\xi, \eta), z_0(\xi, \eta)]$$

on the surface R_0 given by

$$x = x_0(\xi, \eta), \quad y = y_0(\xi, \eta), \quad z = z_0(\xi, \eta).$$

In a publication by V. V. Stepanov (Kurs differentsial'nykh uravnenii. Gostekhizdat, 1953) it is shown that this problem can be reduced to the Cauchy problem for a system of ordinary differential equations. The characteristic equation for the given equation may be written as

$$\begin{aligned} \dot{x} &= pv^2, \quad \dot{y} = qv^2, \quad \dot{z} = rv^2, \\ \dot{p} &= -\frac{v_x}{v}, \quad \dot{q} = -\frac{v_y}{v}, \quad \dot{r} = -\frac{v_z}{v} \end{aligned}$$

using the definitions

$$p = \frac{\partial t}{\partial x}, \quad q = \frac{\partial t}{\partial y}, \quad r = \frac{\partial t}{\partial z}, \quad v_x = \frac{\partial v}{\partial x}, \quad v_y = \frac{\partial v}{\partial y}, \quad v_z = \frac{\partial v}{\partial z}.$$

A comprehensive mathematical definition of initial conditions for the character-

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ACC NR: AP5025076

istic differential equations is derived, such that independent variables for the seismic wave coordinates are also defined. The author demonstrates that the characteristic system of ordinary differential equations lends itself to a numerical integration. An integral form of the surface hodograph is derived in a form suited to the description of a solution algorithm for composite and reflected waves. Analogous solutions are generated for the case of planar waves in the three categories of composite, refracted, and reflected. A simple case is developed for the purpose of studying the error magnitude of the solution algorithm, and a means of approximating the velocity field in a medium by means of hodographs is discussed. The author states that this method is convenient to use with the aid of a digital computer. Orig. art. has: 35 equations and 3 figures.

SUB CODE: 08, 12/ SUBM DATE: 31Aug64/ ORIG REF: 008

jw

Card 3/3

KHUSID, S.Ye., inzh.; ZARZHITSKIY, Yu.A., inzh.; KULAKOV, A.M., inzh.;
KARPOV, A.A., inzh.; KROLENKO, N.A., inzh.; Prinimali uchastiye:
ALEMOV, B.V.; LEONT'YEV, A.I.; BOLOBORODOV, N.M.; KARAGANOV, G.G.;
GUR'YANOV, V.N.; OSOKIN, G.F.; KAYZER, V.G.; SOROKOLETOV, A.M.;
ZLOBIN, V.K.; VIKTOROVA, T.Ye.; SEMENOV, V.A.; VODFNNIKOV, V.F.;
SANAYEV, I.K.

Operating a four-zone holding furnace on natural gas with automatic control. Stal' 25 no.5:464-468 My '65.

(MIRA 18:6)

GUR'YANOV, V. P.

Ivan Mikhailovich Komov, ego zhizn' i deiatel'most' [Ivan Mikhailovich Komov; his life and work]. Moskva, Izd-vo Moskovskogo obshchestva ispytatelei prirody, 1953. 230 p

SO: Monthly List of Russian Accessions, Vol. 6 No 8 November 1953

GUR'YANOV, V.P.

A. I. Hertzen, student in the Physics-Mathematics Department of Moscow
University. Trudy Inst. ist. est. 5:379-386 '53. (MLBA 6:7)
(Hertzen, Aleksandr Ivanovich, 1812-1870)

GUR'YANOV, V.P.

A. I. Hertzen - a member of the Moscow Naturalists' Society. Biul.
MOIP. Otd. geol. 28 no. 6:99-100 '53. (MLRA 6:12)
(Hertzen, Aleksandr Ivanovich, 1812-1870)

GUR'YANOV, V.P.

History of the origin of the Moscow Naturalists' Society. Biul. MOIP. Otd.
(MLRA 6:6)
biol. 58 no.2:93-96 '53.
(Natural history--Societies)

GUR'YANOV, V.P.

History of A.N. Radishchev's agricultural and economical treatise:
"Description of my estate." Biul. MOIP. Otd. biol. 60 no.2:129-131
Mr-Ap '55. (MLRA 8:7)
(Radishchev, Aleksandr Nikolaevich, 1749-1802)
(Komov, Ivan Mikhailovich, 1750-1792)

GUR'YANOV, V.P.

I.I.Mechnikov's first work. Biul.MOIP. Otd.biol. 62 no.4:109-110
Jl-ag '57. (MIRA 10:11)
(MECHNIKOV, IL'IA IL'ICH. 1845-1916)

GUR'YANOV, V.G., elektrik

Furnaces are being charged automatically. Metallurg 7 no.4:13-14
Ap '62. (MIRA 15:3)

1. Domennoy tsekh Kuznetskogo metallurgicheskogo kombinata.
(Blast furnaces—Equipment and supplies)
(Automatic control)

L 29334-66 EWP(k)/EWT(d)/EWT(m)/EWP(h)/T/EWP(1)/EWP(v)/EWP(t)/ETI IJP(c) JD/HM
ACC NR: AP6002893 SOURCE CODE: UR/0286/65/000/024/0049/0049

INVENTOR: Gur'yanov, V. S.

A.O.
B

ORG: none

TITLE: Device for automatic connection of a capacitor-type welding machine.
Class 21, No. 177004

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 49

TOPIC TAGS: welding equipment, welding equipment component, capacitor, microwire, resistor, transformer, welder, electric device, coupling circuit, AUTOMATIC WELDING

ABSTRACT: The device for automatic connection of a capacitor welding machine for welding advantageously the microwire in the glass insulation with the current supply of the wire-wound resistor by employing foil, consisting of a feed unit with a power transformer, an amplifier, and an electromechanical relay, is characterized by the fact that in order to increase the output of the welding machine, it is equipped with a capacitor in the form of a metallic reel with wound microwire, connecting electrically the control electrode of the amplifier with the corresponding secondary winding of the power transformer, which ensures the switching on of the welding machine when the electrode, moving over the foil, is above the microwire.

SUB CODE: 13/ SUBM DATE: 27Apr63/

Card 1/1 CC

UPC: 621.791.763.1.039-52:621.316.842

L 13080-65 EWT(m)/EWA(h) SSD/AFWL/ESD(t)

ACCESSION NR: AP4047356

S/0139/04/000/005/0106/0110

AUTHOR: Gur'yanov, V. S.

TITLE: Contribution to a unified theory of nuclear reactions 19 5

SOURCE: IVUZ. Fizika, no. 5, 1964, 106-110

TOPIC TAGS: nuclear reaction, nuclear physics, Schrodinger equation, Fredholm equation, interaction matrix

ABSTRACT: A variant of a formal theory of nuclear reactions is considered, in which account is taken of the identity of all the nucleons of the system. The approach differs from that of H. Feshbach (Annals of Physics v. 5, 357, 1958 and v. 19, 287, 1962) and others in that no assumptions are made with respect to the correctness of the Pauli principle or with respect to the potential interaction between the nucleon in the nucleus. An exact analytic expression is obtained for the scattering amplitude in the case when the number of

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L 13080-65

ACCESSION NR: AP4047356

levels of the target nucleus is finite. The approach is based on representation of the Schrodinger equation of the system comprising the nucleus and the incident nucleon into a system of quasi-Fredholm equations. A system of quasi-Fredholm equations is derived for the matrix elements of the interaction Hamiltonian for the general case, and this system can be solved with the aid of computers. The result can be applied to any quantum-mechanical scattering systems, since no specific form is postulated for the Hamiltonian. "In conclusion I thank docent A. V. Bravin for suggesting the topic and for useful advice." Orig. art. has: 16 formulas.

ASSOCIATION: Saratovskiy gosuniversitet imeni N. G. Cherny*shevskogo
(Saratov State University)

SUBMITTED: 16Apr63

ENCL: 00

SUB CODE: NP, MA

NR REF Sov: 002

OTHER: 001

Card 2/2

ROBREVSKIY, V.G., prof.; SDOBNIKOV, V.V., kand. tekhn. nauk;
SIMONOV, K.S., kand. tekhn. nauk; GURJANOV, S.P., lita.

Improving the technology of conducting mining operations in
Kuznetsk Basin mines. Igol' 40 no.11/21-24 '65.

(MIRA 18,11)

L. Kuzbasskiy politekhnicheskiy institut.

GUR'YANOV, V.V., gornyy inzh.

Practice of working with loss of metal supports. Ugol' 38
no.9:18-19 S '63. (MIRA 16:11)

1. Kombinat Intaugol'.